Exercise 1 *Vertical Lines*

Callout. *Vertical lines do not have a slope. They consist of all points with the same x-coordinate. For example, the linear relationship with data given in this table consists of points with x-coordinate equal to 5.*

x	y
5	-1
5	0
5	1
5	2

Since this line does not have a slope, we can not express its equation in either point-slope or slope-intercept forms. Instead, a vertical line has an equation of the form $x = C$, where C is the common x-coordinate between all the points, meaning that the line given in the table above has equation $x = 5$.

(a) *The line given by the following table of data:*

x	y
2	-3
2	1
2	1
2	3
2	5

has equation given by $x = \boxed{2}$.

(b) *The line given by the following table of data:*

x	y
$-3/4$	-8
$-3/4$	-7
$-3/4$	-6
$-3/4$	-5

has equation given by $x = \boxed{-\frac{3}{4}}$.